Index of Claims

| Appli | cati | on/C  | ntr    | 'n | Nα   |
|-------|------|-------|--------|----|------|
| Thhi  | can  | 01170 | ,01111 | v. | 110. |

KIM ET AL.

Applicant(s)/Patent under Reexamination

10/092,375

Art Unit

Examiner Tung Vo

2613

Rejected Allowed

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

|       |  | —                                     |  |                  | _        |          | J        |          |  | _              |  |  |
|-------|--|---------------------------------------|--|------------------|----------|----------|----------|----------|--|----------------|--|--|
| Cla   | aim                                    | Date                                  |  |                  |          |          |          |          |  |                |  |  |
| Final |  | 1/11/06                               |  |                  |          |          |          |          |  |                |  |  |
|       | 1                                      | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |  |                  |          |          |          |          |  |                |  |  |
|       | 2                                      | V                                     |  |                  |          |          |          |          |  |                |  |  |
|       | 3                                      | V                                     |  |                  |          | Г        |          |          |  |                |  |  |
|       | 4                                      | 1                                     |  |                  |          |          |          |          |  |                |  |  |
|       | 5                                      | 1                                     | Г  |                  |          |          |          |          |  |                |  |  |
|       | 1<br>2<br>3<br>4<br>5<br>6             | 1                                     | Г  |                  |          |          |          |          |  |                |  |  |
|       | 7                                      | 1                                     |  |                  |          |          | Г        |          |  |                |  |  |
|       | 8                                      | 1                                     |  |                  |          |          | Г        |          |  |                |  |  |
|       | 9                                      | 1                                     |  |                  |          |          |          |          |  |                |  |  |
|       | 10                                     | 1                                     |  |                  |          |          |          |          |  |                |  |  |
|       | 11                                     | 1                                     | Г  |                  |          |          |          |          |  | П              |  |  |
|       | 12                                     | 0                                     |  |                  | Г        |          |          |          |  |                |  |  |
|       | 13                                     | . ✓                                   |  |                  |          |          |          |          |  |                |  |  |
|       | 11<br>12<br>13<br>14<br>15<br>16<br>17 | 7 7                                   |  |                  |          |          |          |          |  |                |  |  |
|       | 15                                     | 1                                     | T  | Т                |          |          |          |          |  | П              |  |  |
|       | 16                                     | V                                     |  | _                | _        | $\vdash$ | $\vdash$ |          |  | П              |  |  |
|       | 17                                     | 1                                     | <del>                                     </del> | -                | Ι-       | -        | _        |          |  |                |  |  |
|       | 18                                     | 1                                     |  |                  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | П              |  |  |
|       | 18<br>19                               | 1                                     |  |                  | _        |          | _        | ┢        | $\vdash$   | П              |  |  |
|       | 20                                     | ٧                                     | _  | $\vdash$         |          | _        | -        | _        | -  | П              |  |  |
| •     | 21                                     | 0                                     |  |                  |          |          | Ė        |          |  |                |  |  |
|       | 21<br>22                               | 0                                     | $\vdash$   | _                |          |          | _        | _        | $\vdash$   | •              |  |  |
|       | 23                                     | 1                                     | _  | $\vdash$         | $\vdash$ | $\vdash$ | $\vdash$ | ┢        | $\vdash$   | Н              |  |  |
|       | 24                                     | 1                                     |  | $\vdash$         |          |          | $\vdash$ | Г        | _  |                |  |  |
|       | 24<br>25                               | 7 7 7 7 7                             | _  | _                |          |          | $\vdash$ | $\vdash$ | _  |                |  |  |
|       | 26<br>27                               | 1                                     | _  |                  |          |          | $\vdash$ | $\vdash$ | $\vdash$   | П              |  |  |
|       | 27                                     | 1                                     |  | $\vdash$         | $\vdash$ |          | $\vdash$ | $\vdash$ | $\vdash$   | П              |  |  |
|       | 28                                     | 1                                     |  | $\vdash$         | _        |          |          |          | _  | П              |  |  |
|       | 29<br>30                               | 1                                     |  |                  |          |          | $\vdash$ | $\vdash$ | $\vdash$   | М              |  |  |
|       | 30                                     | 1                                     | _  | $\vdash$         |          | $\vdash$ |          |          | <del>                                     </del> |                |  |  |
|       | 31                                     |                                       | $\vdash$   | $\vdash$         |          | -        | $\vdash$ | _        |  | Н              |  |  |
|       | 32                                     | 0                                     | $\vdash$   | $\vdash$         | _        | -        | -        | -        | <del>                                     </del> | Н              |  |  |
|       | 32<br>33                               | Ė                                     | $\vdash$   | $\vdash$         | $\vdash$ |          | -        | _        | _  | Н              |  |  |
|       | 34                                     |                                       | $\vdash$   | $\vdash$         | _        | H        |          | $\vdash$ | _  | Н              |  |  |
|       | 35                                     |                                       | -  | $\vdash$         | $\vdash$ |          |          | $\vdash$ | $\vdash$   | Н              |  |  |
|       | 36                                     |                                       | Н  | $\vdash$         | $\vdash$ |          | -        | _        | _  | Н              |  |  |
|       | 37                                     | -                                     | -  |                  | -        | -        | $\vdash$ |          | $\vdash$   | Н              |  |  |
|       | 38                                     |                                       |  | <del>  -  </del> | H        |          |          | H        | $\vdash$   | H              |  |  |
|       | 39                                     | -                                     |  | $\vdash$         |          | -        |          | -        | -  | Н              |  |  |
|       | 40                                     |                                       | H  |                  |          | -        | -        |          | -  | Н              |  |  |
|       | 41                                     | $\vdash$                              |  | _                |          | $\vdash$ | Н        | Н        | ┢  | Н              |  |  |
|       | 42                                     | $\vdash$                              | $\vdash$   | $\vdash$         | $\vdash$ | $\vdash$ | $\vdash$ | -        | $\vdash$   | Н              |  |  |
|       | 43                                     |                                       | -  | $\vdash$         | _        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | Н              |  |  |
|       | 44                                     | -                                     | <del>                                     </del> | $\vdash$         | $\vdash$ |          | Н        | $\vdash$ | $\vdash$   | Н              |  |  |
|       | 45                                     | -                                     | $\vdash$   | -                | -        | $\vdash$ | $\vdash$ | $\vdash$ | <del> </del>                                     | $\vdash$       |  |  |
|       | 46                                     | <u> </u>                              | $\vdash$   | <del> </del>     | -        | -        | $\vdash$ | $\vdash$ | Η-   | Н              |  |  |
|       | 47                                     | H                                     | $\vdash$   | $\vdash$         | $\vdash$ | -        | $\vdash$ |          | -  | $\vdash$       |  |  |
|       | 48                                     |                                       | $\vdash$   | _                | _        | H        | $\vdash$ | $\vdash$ | -  | Н              |  |  |
|       | 49                                     |                                       | -  |                  |          | H        |          |          | $\vdash$   | Н              |  |  |
|       | 50                                     | $\vdash$                              | $\vdash$   | $\vdash$         | -        | -        | $\vdash$ |          | $\vdash$   | $\vdash\vdash$ |  |  |
|       | บบ                                     | . 1                                   |  |                  |          |          |          |          |  | . 1            |  |  |

| Cla | aim      | Ι-      |   |   |     | Date |   |   |   |   | 1   | Cla   | im       | Ι |      |   | Date | <br> | <br>_ | i | ٢ |
|-----|----------|---------|---|---|-----|------|---|---|---|---|-----|-------|----------|---|------|---|------|------|-------|---|---|
|     |          | T       |   | Г | Τ̈́ | Ī    | Í | Г |   |   | 1   |       |          | П | Ò    | ī |      |      |       |   | r |
|     | Original | 1/11/06 |   |   |     |      |   |   |   |   |     | Final | Original |   |      |   |      |      |       |   |   |
|     | 1        | 1       |   |   |     |      |   |   |   |   | 1 1 |       | 51       |   | <br> |   |      |      |       |   | r |
|     |          | 1       |   |   |     |      |   |   |   |   | 1   |       | 52       | П |      |   |      |      |       |   | 1 |
|     | 3        | 1       |   |   |     |      |   |   |   |   | 1 1 |       | 53       | П |      |   |      |      |       |   | ľ |
|     | 4        | 1       |   |   |     |      |   |   |   |   | 1 1 |       | 54       |   |      |   |      |      |       |   | Γ |
|     | 5        | 1       |   |   | П   | Г    |   |   |   | Г | 1 1 |       | 55       |   |      |   |      |      |       |   | r |
|     | 6        | 1       | П |   | Г   | Π    | П |   |   | Г | 1   |       | 56       | П |      |   |      |      |       |   | Γ |
|     | 7        | 1       |   |   | Г   |      | Г |   |   | Π | 1 1 |       | 57       | П |      |   |      |      |       |   | Γ |
|     | 8        | 1       |   |   | Г   |      |   |   |   |   | ] [ |       | 58       |   |      |   |      |      |       |   |   |
|     | 9        | 1       |   |   |     |      |   |   |   |   | ] [ |       | 59       |   |      |   |      |      |       |   |   |
|     | 10       | ٧       |   |   |     |      |   |   |   |   | 1 [ |       | 60       |   |      |   |      |      |       |   |   |
|     | 11       | 1       |   |   |     |      |   |   |   |   | ] [ |       | 61       |   |      |   |      |      |       |   |   |
|     | 12       | 0       |   |   |     |      |   |   |   |   |     |       | 62       |   |      |   |      |      |       |   |   |
|     | 13       | 1       |   |   |     |      |   |   |   |   | ] [ |       | 63       |   |      |   |      |      |       |   |   |
|     | 14       | 1       |   |   |     |      |   |   |   |   | ] [ |       | 64       |   |      |   |      |      |       |   |   |
|     | 15       | 1       |   |   |     |      |   |   |   |   | ]   |       | 65       |   |      |   |      |      |       |   |   |
|     | 16       | V       |   |   | П   | Π    |   |   |   | Г | ]   |       | 66       |   |      |   |      |      |       |   | Г |
|     | 17       | 1       |   |   |     |      |   |   |   |   | 1 [ |       | 67       |   |      |   |      |      |       |   | Γ |
|     | 18       | 1       |   |   |     | Г    | П | Г |   |   | 1   |       | 68       |   |      |   |      |      |       |   | Γ |
|     | 19       | 1       |   |   |     | Г    |   |   | Г |   | 1   |       | 69       |   |      |   |      |      |       |   | Γ |
|     | 20       | 1       |   |   |     |      |   |   |   |   | 1   |       | 70       |   |      |   |      |      |       |   | Γ |
|     | 21       | 0       |   |   |     |      | Г |   |   |   | 1   |       | 71       |   |      |   |      |      |       |   | Γ |
|     | 22       | V       |   |   |     |      |   |   |   | • | ] [ |       | 72       |   |      |   |      |      |       |   |   |
|     | 23       | V       |   |   |     |      |   |   |   |   |     |       | 73       |   |      |   |      |      |       |   | E |
|     | 24       | 1       |   |   |     |      |   |   |   |   |     |       | 74       |   |      |   |      |      |       |   | Γ |
|     | 25       | 1       |   |   |     | Γ    |   |   |   |   | ] [ |       | 75       |   |      |   |      |      |       |   | Γ |
|     | 26       | 1       |   |   |     | Γ    | Γ |   |   |   | ] [ |       | 76       |   |      |   |      |      |       |   | Γ |
|     | 27       | 1       |   |   | Г   |      |   |   |   |   | 1   |       | 77       |   |      |   |      |      |       |   | Γ |
|     | 28       | 1       |   |   |     |      |   |   |   |   | 1 1 |       | 78       |   |      |   |      |      |       |   | Γ |
|     | 29       | 1       |   |   |     |      |   |   |   |   | 1 1 |       | 79       |   |      |   |      |      |       |   | Γ |
|     | 30       | 1       |   |   |     | Г    |   |   |   |   | 1 1 |       | 80       |   |      |   |      |      |       | ĺ | r |
|     | 31       | 0       |   |   |     |      |   |   |   |   | 1 1 |       | 81       |   |      |   |      |      |       | l | Γ |
|     | 32       | 1       |   |   |     |      |   |   |   |   | 1 [ |       | 82       |   |      |   |      |      |       |   | F |
|     | 33       |         |   |   |     |      |   |   |   |   | ] [ |       | 83       |   |      |   |      |      |       | i |   |
|     | 34       |         |   |   |     |      |   |   |   |   | ] [ |       | 84       |   |      |   |      |      |       | ŀ | Γ |
|     | 35       |         |   |   |     |      |   |   |   |   | ] [ |       | 85       |   |      |   |      |      |       |   |   |
|     | 36       |         |   |   |     |      |   |   |   |   | ] [ |       | 86       |   |      |   |      |      |       |   |   |
|     | 37       |         |   |   |     |      |   |   |   |   |     |       | 87       |   |      |   |      |      |       |   |   |
|     | 38       |         |   |   |     |      |   |   |   |   |     |       | 88       |   |      |   |      |      |       |   |   |
|     | 39       |         |   |   |     |      |   |   |   |   |     |       | 89       |   |      |   |      |      |       | 1 |   |
|     | 40       |         |   |   |     |      |   |   |   |   |     |       | 90       |   |      |   |      |      |       |   | Г |
|     | 41       |         |   |   |     |      |   |   |   |   |     | •     | 91       |   |      |   |      |      |       |   |   |
|     | 42       |         |   |   |     |      |   |   |   |   |     |       | 92       |   |      |   |      |      |       | ŀ | E |
|     | 43       |         |   |   |     |      |   |   |   |   | ] [ |       | 93       |   |      |   |      |      |       |   |   |
|     | 44       |         |   |   |     |      |   |   |   |   |     |       | 94       |   |      |   |      |      |       |   | Γ |
|     | 45       |         |   |   |     |      |   |   |   |   | ] [ |       | 95       |   |      |   |      |      |       |   |   |
|     | 46       |         |   |   |     |      |   |   |   |   |     |       | 96       |   |      |   |      |      |       |   | Γ |
|     | 47       |         |   |   |     |      |   |   |   |   | ] [ |       | 97       |   |      |   |      |      |       |   | Γ |
|     | 48_      |         |   |   |     |      |   |   |   |   | ] [ |       | 98       |   |      | · |      |      |       |   | Γ |
|     | 49       |         |   |   |     |      |   |   |   | L | ] [ | ]     | 99       |   |      |   |      |      |       |   |   |
|     | 50       |         |   |   |     |      |   |   |   |   | ] [ |       | 100      |   |      |   |      |      |       |   |   |
|     |          |         |   |   |     |      |   |   |   |   |     |       |          |   |      |   |      |      |       |   | _ |

| Cl    | aim                             | Date         |          |          |              |               |              |                    |                    |                    |  |
|-------|---------------------------------|--------------|----------|----------|--------------|---------------|--------------|--------------------|--------------------|--------------------|--|
| Final | Original                        |              |          |          |              |               |              |                    |                    |                    |  |
|       | 101<br>102                      |              |          |          |              |               |              |                    |                    |                    |  |
|       | 102                             |              |          |          |              |               |              |                    |                    |                    |  |
|       | 103                             |              |          |          | _            |               | _            |                    | <u> </u>           | Ш                  |  |
|       | 103<br>104<br>105               | <u> </u>     | _        | _        |              |               | _            | _                  | _                  | Ш                  |  |
|       | 105                             | <u> </u>     | <u> </u> | <u> </u> |              | ļ             | <u> </u>     | _                  | <u> </u>           | Ш                  |  |
|       | 106                             | <u> </u>     |          |          | _            | ├             | <del> </del> | _                  | ├                  | Н                  |  |
|       | 106<br>107<br>108<br>109        | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$      |              | -                  | -                  | Н                  |  |
|       | 109                             | <u> </u>     | $\vdash$ |          | -            | <del> -</del> | -            | $\vdash$           | ┝                  | Н                  |  |
|       | 1110                            |              | H        |          | _            | -             | -            | $\vdash$           | $\vdash$           | H                  |  |
|       | 111                             | Г            |          |          |              | Г             |              |                    | $\vdash$           | П                  |  |
|       | 111<br>112<br>113               |              |          |          |              |               |              |                    |                    |                    |  |
|       | 113                             |              |          |          |              |               |              |                    | 匚                  |                    |  |
|       | 114<br>115                      |              | L        | L        |              |               | L            | $oxedsymbol{oxed}$ | $oxedsymbol{oxed}$ | Ш                  |  |
|       | 115                             | _            | L        |          |              | L.            | _            | _                  | _                  | Ш                  |  |
|       | 116                             | <u> </u>     | H        |          | _            | H             | L            | -                  | _                  | Н                  |  |
|       | 118                             | H            | -        | $\vdash$ |              |               | ┢            | $\vdash$           | $\vdash$           | Н                  |  |
|       | 119                             | $\vdash$     |          | $\vdash$ | _            | $\vdash$      | -            |                    |                    | Н                  |  |
|       | 117<br>118<br>119<br>120<br>121 |              |          | $\vdash$ |              |               | $\vdash$     |                    | Н                  | Н                  |  |
|       | 121                             | $\vdash$     | _        |          |              |               |              |                    |                    | П                  |  |
|       | 122                             |              |          |          |              |               |              |                    |                    | $\overline{\cdot}$ |  |
|       | 122<br>123<br>124               |              |          |          |              |               |              |                    |                    |                    |  |
|       | 124                             | _            |          |          |              | _             |              |                    | _                  | Щ                  |  |
|       | 125                             |              | H        | <u> </u> |              |               | _            | _                  | <u> </u>           | Н                  |  |
|       | 125<br>126<br>127               |              | -        | -        |              |               | _            | $\vdash$           | $\vdash$           | Н                  |  |
|       | 128                             | _            |          | -        |              | -             | -            | $\vdash$           | -                  | Н                  |  |
|       | 128<br>129<br>130               | _            |          | -        | _            |               | _            |                    |                    | Н                  |  |
|       | 130                             |              |          |          |              |               |              |                    |                    | Н                  |  |
|       | 131                             |              | -        | Г        |              |               |              |                    |                    | П                  |  |
|       | 132                             |              |          |          |              |               |              |                    |                    |                    |  |
|       | 133                             |              |          |          |              |               |              |                    |                    | Ш                  |  |
|       | 131<br>132<br>133<br>134        |              |          | L        |              | _             | _            |                    | <u> </u>           | Ш                  |  |
|       | 135                             | $\vdash$     | _        | <u> </u> | _            |               | <u> </u>     |                    | -                  | Н                  |  |
|       | 136<br>137                      | ⊢            | _        |          | _            |               | <u> </u>     |                    |                    | Н                  |  |
|       | 138                             | ┝            |          |          | _            |               | $\vdash$     |                    | -                  | Н                  |  |
|       | 139                             | $\vdash$     |          | Н        | _            |               |              |                    | _                  | Н                  |  |
|       | 140                             |              |          | П        | Т            | Т             |              |                    | П                  | Н                  |  |
|       | 141                             |              |          |          |              |               |              |                    |                    |                    |  |
|       | 142                             |              |          |          |              |               |              |                    |                    |                    |  |
|       | 143                             | $oxed{\Box}$ |          |          | $oxed{oxed}$ |               | L            |                    | $oxed{\mathbb{L}}$ | Ш                  |  |
|       | 144                             | -            |          |          |              |               | <u> </u>     |                    | _                  |                    |  |
|       | 145                             | _            | _        | _        | _            | $\vdash$      | <u> </u>     | _                  | -                  | Н                  |  |
|       | 146<br>147                      |              | <u> </u> | <u> </u> | -            | $\vdash$      | -            | -                  | -                  | $\vdash$           |  |
|       | 148                             | $\vdash$     |          | -        | -            | -             | -            | -                  | -                  | $\vdash$           |  |
|       | 149                             | $\vdash$     |          |          | $\vdash$     | _             |              | $\vdash$           | $\vdash$           | $\vdash$           |  |
|       | 150                             | Т            | Т        |          |              |               |              |                    | П                  | П                  |  |
|       |                                 |              |          | _        |              |               |              |                    |                    |                    |  |